

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listing, of claims in the application:

Listing of Claims:

1. (Currently amended) A security control apparatus comprising:
a security device;
a control apparatus responsive to security codes for enabling and disabling the security device;
a security code source unit which communicates security codes to the control apparatus, the security code source unit having an analysis apparatus comprising a means for analyzing a first voice signal and a secondary access control selected from the group consisting of a means for analyzing a second voice signal and a user controlled keypad, the security code source unit including circuitry responsive to the analysis apparatus and the secondary access control, the security code source unit effective for communicating to the control apparatus a security code including a portion representing user interaction with the security code source unit, the means for analyzing the first voice signal comprising a speaker dependent voice analysis means to effect access to a secured area, the means for analyzing the second voice signal being voice independent, the second voice signal including a passcode to effect entry into a secured area and which passcode is verified by the control apparatus to effect the access to the secured area, the secondary access control being electronically effected in response to ~~[[by]]~~ a failure of the speaker dependent voice analysis to recognize ~~identify~~ the first voice signal, the secondary access control effected to analyze the second voice signal or signal from the keypad after the failure of the speaker dependent voice analysis to recognize the first voice signal and without the necessity of a failure of a voice independent analysis ~~without further analysis of the first voice signal when the speaker dependent voice means fails to identify the first received voice signal.~~

2. (Cancelled)

3. (Previously Presented) A security control apparatus in accordance with claim 1, wherein the security code source unit comprises memory for storing the passcode entered by the user in association with representations of speech generated by the voice independent means for analyzing second voice signal.

4. (Currently Amended) A security control apparatus in accordance with claim 3, wherein the circuitry of the security code unit ~~which~~ communicates security codes responds to comparison characteristics between a stored speech representation and a spoken speech representation for communicating a security code.

5. (Previously Presented) A security control apparatus in accordance with claim 3, wherein a security code communicated to the control apparatus comprises the passcode entered by user interaction with the keypad.

6. (Previously presented) A security control apparatus in accordance with claim 3, wherein a security code communicated to the control apparatus comprises the passcode entered via the voice independent means for analyzing second voice signal.

7. (Cancelled)

8. (Previously Presented) A security control system in accordance with claim 44, comprising:

a pass code apparatus responsive to speaker independent voice analysis means, the pass code apparatus effective for transmitting a security code comprising a pass code to a barrier movement apparatus and the security control apparatus comprises apparatus for generating the security approval signal in response to the pass code.

9. (Cancelled)

10. (Previously Presented) A security control system in accordance with claim 44, comprising apparatus operative during a learn mode for storing speech representations of a first user's voice speaking the commands; and
memory for storing the speech representations.

11. (Previously presented) A security control system in accordance with claim 44, wherein the speaker independent voice analysis means is adapted to receive input representing a passcode and including an apparatus for storing the passcode representations input by the user.

12-22. (Cancelled)

23. (Previously Presented) A barrier movement apparatus comprising:
barrier control apparatus responsive to barrier control security codes for moving a barrier;
control circuitry responsive to user interaction for transmitting barrier security codes to control barrier movement, the user interaction comprising security approval before the generation of the barrier security codes, wherein the control circuitry comprises a speaker dependent voice analysis means for analyzing a first spoken password to effect transmission of the security codes and a speaker independent voice analysis means for analyzing a second spoken signal which includes a second passcode to effect transmission of the security codes and for granting security approval, the speaker independent voice analysis means being electronically activated when the speaker dependent voice analysis means fails to grant security approval based upon analyzing the first spoken password, the speaker independent voice analysis means and the second spoken signal spoken by the user effecting entry into a secured area without further analysis of the first password after the failure to recognize the first spoken password, the second spoken passcode being different from the first spoken password and the second spoken passcode including a verified pass code to effect entry into a secured area.

24. (Previously Presented) A barrier movement apparatus in accordance with claim 23 wherein the control circuitry enables a voice analysis means for a predetermined period of time after the generation of a barrier control command to respond without security approval to the at least one spoken word to stop a closing barrier.

25. (Cancelled)

26. (Currently Amended) A barrier movement apparatus comprising:
a motor responsive to barrier control commands for operating the barrier;
a speaker dependent voice analysis apparatus responsive to a first successful analysis of a first spoken password from a user speaker for recognizing the password and controlling the motor to operate the barrier upon a successful recognition of the password; and
a speaker independent voice analysis apparatus which is electronically activated [[by]] in response to and after a failure of the recognition of the first spoken password by the speaker dependent voice analysis apparatus, the speaker independent voice analysis apparatus responsive to a successful analysis of a second spoken passcode from any speaker for changing barrier movement, the second spoken passcode uttered subsequent to the first spoken password to effect entry to effect entry into a secured area after only the failure of the speaker dependent voice analysis ~~without further analysis of the first spoken password and the failure to recognize the first spoken password,~~ the speaker independent voice analysis apparatus recognizing and verifying the second passcode and then transmitting the identified and verified passcode to the security control apparatus.

27. (Original) A barrier movement apparatus according to claim 26, wherein the speaker independent voice analysis apparatus is enabled for a predetermined period of time after the motor is directed to operate the barrier.

28. (Original) A barrier movement apparatus according to claim 27, wherein the speaker independent voice analysis apparatus is enabled for a predetermined period of time after the motor is controlled to operate the barrier, to reverse barrier movement.

29. (Original) A barrier movement apparatus according to claim 27, wherein the speaker independent voice analysis apparatus is enabled for a predetermined period of time after the barrier control apparatus is controlled to move the barrier, to stop movement of the barrier.

30-38. (Cancelled)

39. (Previously Presented) A security control apparatus in accordance with claim 3, further comprising a voice analysis unit for analysis of a user's spoken words to define a pass code.

40. (Currently Amended) A method of granting security access comprising:
receiving first speech information from a user;

analyzing the first speech information using a speaker dependent voice analysis and generating a security code upon a successfully analyzing the first speech information with the speaker dependent voice analysis;

subsequent to an unsuccessful analysis of the first speech information with the speaker dependent voice analysis, electronically activating a speech independent voice analysis apparatus by a failure of the speaker dependent analysis to analyze the first speech information without further analysis of the first speech information;

after activation of the speech independent voice analysis apparatus, receiving second speech information from a speaker, the second speech information being different from the first speech information and including a passcode to effect entry into a secured area;

initiating the analyzing of the second speech information using a speaker independent voice analysis; and

transmitting the security code upon successfully verifying the pass code and successfully analyzing the second speech information with the speaker independent analysis.

41. (Currently Amended) A security control apparatus comprising:
a security device;

a control apparatus responsive to security codes for enabling and disabling the security device; and

a security code source unit which communicates security codes to effect the transmission of the security codes to the control apparatus, the transmission of the security codes effected by a pass code,

the security code source unit having a speaker dependent voice analysis apparatus and a secondary access control selected from the group consisting of a speaker independent voice analysis apparatus and a user controlled keypad,

the speaker dependent voice analysis apparatus effective for recognizing a first spoken signal which comprises a spoken voice user password command to effect retrieval of the pass code and transmission of the security codes upon recognition of the spoken voice user password command by the speaker dependent voice analysis apparatus,

the secondary access control being electronically effected by a failure to the speaker dependent voice analysis, the secondary access control effected to analyze a second signal selected from the group consisting of a second spoken signal and a signal from the keypad, the second signal comprising second signal pass code, ~~the effecting of the secondary access control without further analysis of the spoken voice user password command when the speaker dependent voice analysis apparatus fails to recognize the spoken voice user password command,~~ the secondary access control configured to communicate ~~effective communicating~~ to the control apparatus the second signal pass code directly from the user after only ~~[[with]]~~ the failure of the speaker dependent voice analysis apparatus to recognize the spoken voice user password command.

42. (Previously Presented) A security control apparatus in accordance with claim 41, further comprising apparatus operative during a learn mode for storing speech representations of a first user's voice speaking the password and the pass code; and
memory for storing the speech representations.

43. (Previously Presented) A security control apparatus in accordance with claim 41, wherein the speaker independent voice analysis apparatus is adapted to receive input

representing a pass code and including an apparatus for storing the pass code representations input by the user.

44. (Currently Amended) A security control system comprising:

a security device;

a control apparatus responsive to security codes for enabling and disabling the security device; and

a security code source unit to effect the transmission of the security codes to the control apparatus, the transmission of the security codes effected by a pass code,

the security code source unit having a means for speaker dependent voice analysis apparatus and a secondary access control selected from the group consisting of a means for speaker independent voice analysis apparatus and a user controlled keypad,

the means for speaker dependent voice analysis apparatus effective for recognizing a first spoken signal which comprises a spoken voice user password command to effect retrieval of the pass code and transmission of the security codes upon recognition of the spoken voice user password command by the means for speaker dependent voice analysis apparatus,

the secondary access control being electronically effected in response to ~~[[by]]~~ a failure of the means for speaker dependent voice analysis to recognize ~~[[identify]]~~ the first voice signal, the secondary access control effected to analyze a second signal comprising a second spoken signal or signal from the keypad, the second signal further comprising a second signal pass code, the secondary access control analyzing the second signal after the failure of the means for speaker dependent voice analysis to recognize the first voice signal and without the necessity of a failure of a voice independent analysis ~~without further analysis of the spoken voice user password command when the means for speaker dependent voice analysis apparatus fails to recognize the spoken voice user password command~~, the secondary access control configured to communicate ~~effectively communicating~~ the second signal to the control apparatus directly from the user with the failure of the means for speaker dependent voice analysis apparatus to recognize the spoken voice user password command.

45. (New) A method of granting security access comprising:

receiving first speech information from a user;

analyzing the first speech information using a speaker dependent voice analysis and generating a security code upon a successfully analyzing the first speech information with the speaker dependent voice analysis;

subsequent to an unsuccessful analysis of the first speech information with the speaker dependent analysis, electronically activating a speech independent voice analysis apparatus in response to a failure of the speaker dependent voice analysis to analyze the first speech information;

after activation of the speech independent voice analysis apparatus, receiving second speech information from a speaker, the second speech information being different from the first speech information and including a passcode to effect entry into a secured area;

initiating the analyzing of the second speech information using a speaker independent voice analysis after the failure of the speaker dependent voice analysis to recognize the first voice signal and without the necessity of a failure of a voice independent analysis; and

transmitting the security code upon successfully verifying the pass code and successfully analyzing the second speech information with the speaker independent analysis.